TZ87/877 Family of High-Capacity Tape Drives and Subsystems

Desktop to Datacenter Unattended Backup Solutions

Outstanding Performance, High Capacity, and Flexibility

Digital's new generation of TZ87/877 tape drives and subsystems offers outstanding performance, unsurpassed integrity, utilizing data compression and a compaction-formatted capacity of 20 GB. Performing at user data transfer rate of 2.5MB/s data transfer rate, and with a new, increased capacity of 20 GB per cartridge, magazine tape subsystems within this family offer 140 GB of unattended tape backup.

As with Digital's award winning Tx85/86 family, these unattended backup solutions are offered in SCSI (Small Computer System Interface), versions in tabletop, pedestal, or StorageWorks (TM) subsystem configurations for complete desktop to datacenter flexibility.

HIGHLIGHTS:

* Performance up to 5 GB/hour to 140 GB in approximately 28 hours
* Unattended backup options that can be placed anywhere from the desktop to datacenter
* Superior sustained data transfer rate of up to 2.5 MB/secpmd
* Industry-leading error detection and correction result in data integrity comparable to that of magnetic disks
* Full read/write compatibility with any tape subsystem in the family for data interchange and software distribution
* Offers TZ30, TK50, and TK70 read compatibility
* Offers Tx85/86 read and write compatibility

Digital Meets Your Need for Reliable Unattended Backup

The TZ87/877 family of tape drives and subsystems addresses your critical concern for reliable unattended backup for all data regardless of system or location. Digital understands that capacity, transfer time, and data integrity are the most important factors in selecting a tape backup system. The TZ87/877 family of tape drives and subsystems has been designed to meet these requirements.

High Data Transfer Rate Enhanced by Caching

At 2.5 MN/s, the TZ87/877 offers the best combination of performance and capacity available in the industry. The drix design includes a dual-channel read/write head, DLZ (Digital Lempel-Zin) high efficiency data compression and tape mark directory to maximize data throughout and minimize data access time.

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Superior Data Capacity

All members of the TZ87/877 family use the CompacTape III cartridge which at 20 GB (formatted with compression) of data per cartridge, provides significantly increased data capacity over previous generations. This increase is due to compression and a unique recording method that uses a ferrite head and half-inch wide, 1100-ft metal particle (MP) tape. MP tape is durable and provides longer media life than ozide-based tapes.

When fully loaded, these magazine tape subsystems can back up to 140 GB in approximately three shifts without operator intervention.

Industry-leading Data Integrity

Extensive error detection and correction make the data integrity of TZ87/877 tape drives and subsystems comparable to that of magnetic disks. Other advanced data integrity features include:

* A custom 64-bit CRC on each 4 KB of data on media
* A powerful custom Reed-Solomon error correction code (ECC)
* End-to-end detection and correction (EDC) on data (onto the media and back)
* Parity checking on data cache memory.

These features combine to produce undetected errors of less than 1 in 10/30 bits and unrecovered read error of less than 1 in 10/17 bits. In addition, tape reliability, rugged cartridge design, and gentle tape handling contribute to continued reliable performance even after 250,000 tapehead passes.

Reliable Tape Backup for SCSI Systems

Digital's TZ87 SCSI tabletop tape drive and SZ107 pedestal mounted seven cartridge magazine tape subsystem use the CompacTape III cartridge magazine tape subsystem use the CompagTape III cartridge. Data recorded on these SCSI subsystems are read/write compatible with all other members of the Tx86/867 family.

Investment Protection

The TZ87/877 family of tape drives and subsystems protects earlier investments because these drives can read and write to Tx85/857 or Tx86/867 tape cartridges, and are read-compatible with TZ30, TK50,a and TK70 tape cartridges.

For More Information

To find out more about Digital's family of high capacity tape drives and subsystems, call your local Digital sales office or authorized distributor.

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SPECIFICATIONS:

Performance:	
Read/write speed	120 in/s, streaming
Transfer rate, raw	1.25 MB/s
Sustained transfer rate	2.5 MB/s
Sustained transfer rate, formatted data	up to 2.5 MB/s
Repositioning time (typical)	1.3s
Hard error rate	1 in 10/27 bits read
Undetected error rate	1 in 10/30 bits read (calculated)
Data Organization:	
Recording format	112 track serial serpentine fixed block
Recording density	55,000 bits/in
Track density	224 tracks/in
Read/write head	Two-channel ferrite,w/MTG
Data encoding	2,7 RLL
Record size	Variable up to 64 KB, 4 KB blocking factor
Data compression algorithm	DCZ
Maximum capacity (formatted)	20 GB (cartridge),140 GB (magazine)
Recording medium:	
Tape	0.5 metal particle (MP) tape, 1400 to 1500 Oersted, 0.5 mil thick
Length	1186 ft (usable)
Cartridge	CompacTape III 0.5-in tape in a 4.1x4.1x1-in cartridge
Durability	250,000 tape-head passes
Shelf life	10 years min at 20(0)C and 40% RH (non condensing)
Operating Environment	
Temperature	10 to 40(o)C
Relative humidity	20 to 80% noncondensing
Altitude (maximum)	8,000 ft

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